

A blurred background image showing a surgical procedure. A hand in a white glove is visible, holding a surgical instrument near a patient's head. The scene is dimly lit, with a focus on the surgical site.

Get 1cc Autogenous Bone within Seconds

ACM
Auto Chip Maker

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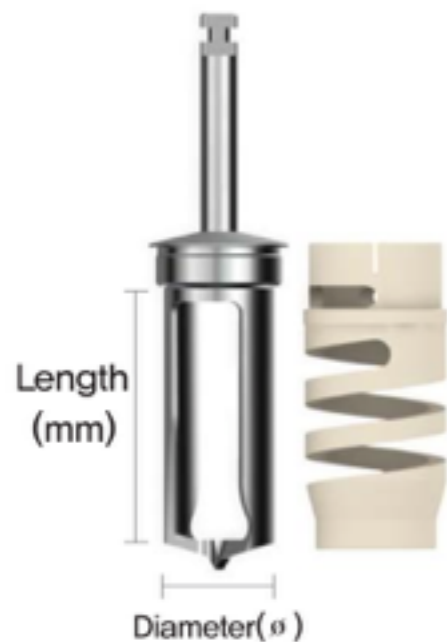
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Indication

ACM(Autochip Maker) is an instrument to collect autograft bone from mandibular molars or incisor for GBR in defected area

Specification and Type

1 box : 1 drill and 7 stoppers



Diameter	Length(mm)	Code
4.0	10mm	ACM40ISETES
	14mm	ACM40ISETS
4.5	10mm	ACM45ISETES
	14mm	ACM45ISETS
5.0	10mm	ACM50ISETES
	14mm	ACM50ISETS
6.0	10mm	ACM60ISETES
	14mm	ACM60ISETS

Precautions

1. Instrument is susceptible to damage and wear and should be inspected before use.
2. Check the latch lock shank for wear to ensure that the connection is not damaged by reused instrument.
3. Instrument must be cleaned and sterilized prior to use
4. Stopper is ready to use. **Do not sterilize plastic stopper in autoclave prior to use.**

Procedure

1. Mount stopper to ACM and connect dental implant motor.
2. Locate the drill on the surface of operation area by pressing it slightly with saline irrigation.
 - ✓ Recommended drilling speed is 50~300rpm and maximum torque over 50Ncm.
(50rpm without irrigation, Over 100rpm with irrigation)
 - ✓ The stopper does not go deeper than 4mm.
 - ✓ Maximum 4mm depth autograft bone, drill until 3~4mm depth and move to different area to collect the same quality bone chip.
 - ✓ Drill with shaking to left and right for effective cutting and cooling.
3. When autograft bone is fully filled in the space, take out the bone chips from ACM to the medical bowl after removing the stopper.
4. Repeat procedure 1,2,3 until taking the enough autograft bone.
5. GBR with the collected autograft bone in the defected area.



If the thickness of cortical bone is below 4mm, drill can be stopped by over torque due to touching the cancellous bone.

To prevent drill stop, drill below 4mm to collect cortical bone only.

Otherwise shake toward left and right with maximum torque.

Caution



1. Must irrigate with saline while drilling to prevent bone heating.
2. Recommendation speed is 50~300rpm and maximum torque over 50Ncm.
3. Recommended using times are below 7 to prevent bone necrosis caused by drill abrasion.
4. Clean the instrument immediately as the blood, tissue remains, bone debris or secretion could be dried on it.

Cleaning

1. Disassemble multi-piece components. Rinse with cool to lukewarm water for two and one half minutes.
2. Place all parts in an ultrasonic cleaner with an enzymatic detergent diluted with tap water per the manufacture's guidelines. Sonicate for ten minutes. Rinse with tap water for three minutes.

Sterilization



Stopper is disposable. **When sterilizing plastic stopper in autoclave, it will melt down.**

Remove all protective packaging and separate stopper from ACM before sterilization to ensure maximum efficacy.

Recommended Steam Sterilization Parameters

	Cycle Type	Temperature	Pressure ³	Exposure Time	Dry Time
Instrument, Wrapped	Pre-Vacuum ^{1,2}	132°C 270°F	2 bars 28.5 psi	3 minutes	30 minutes
Instrument, Wrapped	Gravity ¹	121°C 250°F	1 bars 14.5 psi	40 minutes	30 minutes

* Note : To ensure autoclave is performing effectively, periodic use of biologic indicators should be considered. Dry heat and Chemclave sterilization are NOT recommended.

¹ Minimum validated steam sterilization time and temperature required to achieve a 10⁻⁶ sterility assurance level(SAL)

² Local or national specifications should be followed where steam sterilization requirements are stricter or more conservative than those listed in this table.

³Sea level

Storage and Management

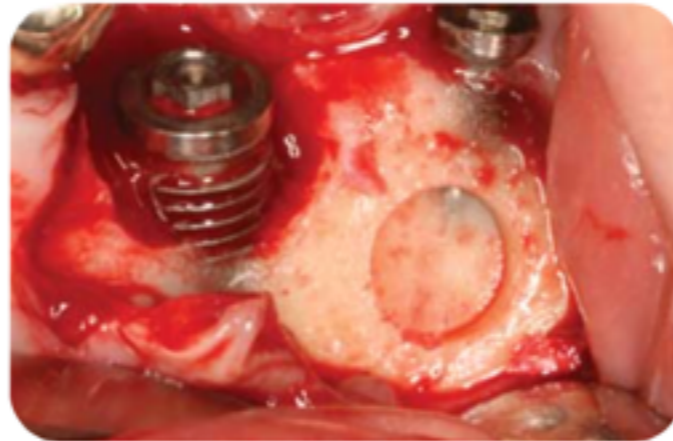
1. Store in a dry area at room temperature.
2. Used product must be cleaned, sterilized and dried before storage.
3. Discard the instrument which used 7 times.
4. Reuse instrument may affect cutting efficiency and damage of latch lock shank. If inspection reveals signs of wear or damage, replace the instruments.

Clinical Case

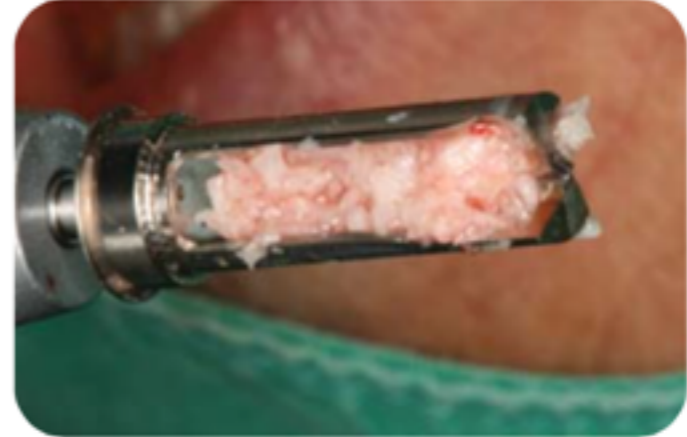
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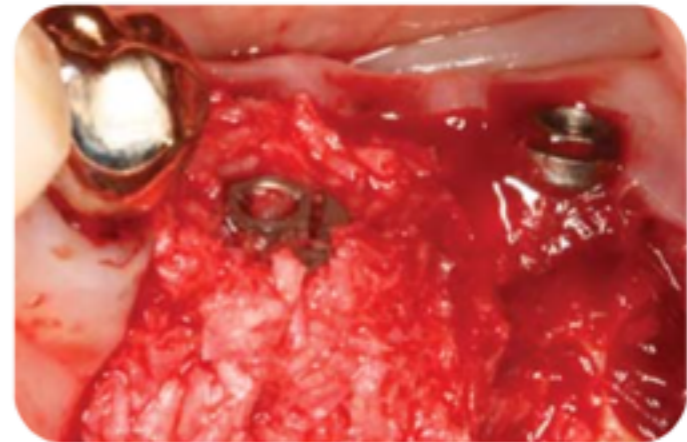
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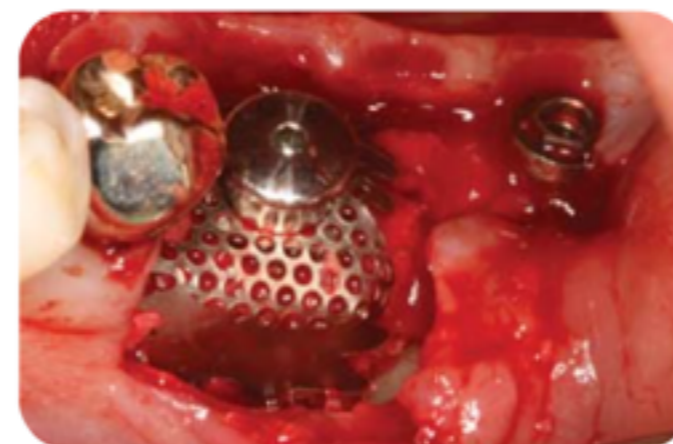
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Clinical Movie

ACM

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